

Certificate of Analysis

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Product Name: Galanin (1-15) (porcine, rat)

Catalog No.: 1450

Batch No.: 4

CAS Number: 112747-70-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₂H₁₀₅N₁₉O₂₀
Batch Molecular Weight: 1556.74
Physical Appearance: White lyophilised solid
Net Peptide Content: 78%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-
 Leu-Gly-Pro-His-Ala

2. ANALYTICAL DATA

HPLC: Shows 97% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala	2.00	1.84	Lys				
Arg			Met				
Asx	1.00	1.02	Phe				
Cys			Pro	1.00	1.01		
Glx			Ser	1.00	0.97		
Gly	3.00	2.97	Thr	1.00	1.05		
His	1.00	0.99	Trp				
Ile			Tyr	1.00	1.03		
Leu	3.00	2.70	Val				

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
 info@bio-techne.com
 techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
 info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel:+1 612 379 2956

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Description:

N-terminal galanin fragment. In contrast to the full length (1-29) peptide, mediates central cardiovascular effects, perhaps by binding to a novel receptor type.

Physical and Chemical Properties:

Batch Molecular Formula: C₇₂H₁₀₅N₁₉O₂₀

Batch Molecular Weight: 1556.74

Physical Appearance: White lyophilised solid

Peptide Sequence:

Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-
Leu-Gly-Pro-His-Ala

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 78% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Narvaez et al (2000) The galanin receptor antagonist M40 blocks the central cardiovascular actions of the galanin N-terminal fragment (1-15). *Eur.J.Pharmacol.* **399** 197. PMID: 10884520.

Xu et al (1999) Electrophysiological evidence for a hyperpolarizing, galanin (1-15)-selective receptor on hippocampal CA3 pyramidal neurons. *Proc.Natl.Acad.Sci.USA* **96** 14583. PMID: 10588748.

Amiranoff et al (1989) Structural requirements for galanin action in the pancreatic β cell line rin m 5F. *Eur.J.Pharmacol.* **163** 205. PMID: 2472967.

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